

Interoffice Memo Office of Design Policy & Support

DATE:

9/7/2018

FILE:

P.I.# 0014167

Fannin County

GDOT District 6 - Cartersville

CR 38/Shallowford Bridge Road at Toccoa River

Bridge Replacement

FROM:

Frent Story, State Design Policy Engineer

TO:

SEE DISTRIBUTION

SUBJECT:

APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

Distribution:

Hiral Patel, Director of Engineering

Joe Carpenter, Director of P3

Albert Shelby, Director of Program Delivery

Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator

Kim Nesbitt, Program Delivery Administrator

Bobby Hilliard, Program Control Administrator

Paul Tanner, State Transportation Planning Administrator

Eric Duff, State Environmental Administrator

Bill DuVall, State Bridge Engineer

Andrew Heath, State Traffic Engineer

Angela Robinson, Financial Management Administrator

Erik Rohde, State Project Review Engineer

Monica Flournoy, State Materials Engineer

Patrick Allen, State Utilities Engineer

Eric Conklin, State Transportation Data Administrator

Attn: Systems & Classification Branch

Benny Walden, Statewide Location Bureau Chief

Grant Waldrop, District Engineer

David Acree, District Preconstruction Engineer

Jun Birnkammer, District Utilities Manager

Jeff Henry, Project Manager

BOARD MEMBER - 9th Congressional District

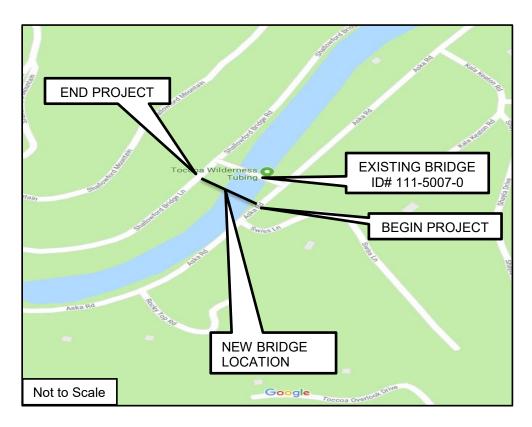
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA LIMITED SCOPE PROJECT CONCEPT REPORT Project Type: Bridge Replacement P.I. Number: 0014167

GDOT District:	District 6	County:	
Federal Route Number:	N/A	State Route Number:	N/A
	Project Number:	N/A	
*		- 1-7 to 177	
The proposed project will replace	ce the bridge carrying CR 38/Sha	llowford Bridge Road over T	occoa River in Fannin County
Submitted for approval:			
Some I Pour	Long Engine	ering, Inc.	08/24/18
Consultant Designer & Firm	Long Engine Kumberly W. Mosbett		Date 5/10/18
State Program Delivery Admi	-		Date
MEA	SHP C. L. 6	L .	05/09/18
GD Project Manager			Date
	* 0	T.0	
Recommendation for appro	oval: *Recommendation	ns on Tibe	
¥			
*Eric Duff/AT State Environmental Adminis			05/20/2018
			Date
*Christina D. Barry/A7 or State Traffic Engineer			05/20/2018 Date 05/29/2018 Date
* State Traffic Engineer			
*Crant Waldrop/AT District Engineer			
*Bill DuVall/AT			Date
State Bridge Engineer			Date
(RTP)/Long Range ☐ ⊠ Rural Area: This pro	oject is consistent with the MP Transportation Plan (LRTP). oject is consistent with the goa cluded in the State Transporta	ls outlined in the Statewid	e Transportation Plan
*Cynthia L. VanDyke/A	<i>T</i>		05/22/2018
State Transportation Planni	ng Administrator		Dáte '
Approval:			
Concur:	A)		9-4-18
GDOT Direct	or of Engineering		Date
Approve:	mod B. Pivel	A	Date 9 7 18
GDOT Chief			Date

P.I. Number: 0014167

PROJECT LOCATION MAP







BRIDGE REPLACEMENT ON CR 38 OVER TOCCOA RIVER FANNIN COUNTY, GA

PI # 0014167

County: Fannin

PLANNING & BACKGROUND DATA

Project Justification Statement (Preparer - GDOT Planning Office): The bridge on CR 38 (Shallowford Bridge Road) over Toccoa River, Structure ID 111-5007-0, was built in 1918. This bridge consists of one main span steel truss with two (2) approach spans of steel girders. These spans rest on vertical concrete walls with spread footings. The bridge was designed using an unknown design load. This bridge is classified as Fracture Critical and is currently posted for weight restrictions. The overall condition of this bridge would be classified as poor. The deck is in good condition. The superstructure is in poor condition with major corrosion and areas of up to 100% section loss. The substructure is in fair condition with moderate cracking in the vertical walls and moderate abrasion at the waterline. This bridge is classified as having an unknown foundation and therefore could be at risk of scour. Due to the weight restrictions of the structure, the fracture critical classification, and the unknown foundation of the substructure, replacement of this 100-year-old bridge is recommended.

P.I. Number: 0014167

Existing Conditions: Bridge 111-5007-0 is located on CR 38 (Shallowford Bridge Road) where it crosses Toccoa River and ties into Aska Road in Fannin County, 9.4 miles south of Blue Ridge, GA. The Benton MacKaye Trail crosses and is part of the existing bridge. The traillvaries in width. The bridge is a single lane bridge that is 11.4 feet wide and has a vertical clearance of 10 feet 6 inches. CR 38 has varying road widths between 10 feet and 20 feet with surfaces varying between pavement and gravel along with minimal shoulders. Multiple utility poles are adjacent to the bridge. The area adjacent to the project site is utilized by Toccoa Wilderness Tubing and becomes congested during the summer months.

Other projects in the are	ea: N/A			
MPO: N/A - not in an	MPO	TIP #: N	√A	
Congressional District(s) : 9			
Federal Oversight:	PoDI ⊠Exer	npt □State	Funded	□Other
Projected Traffic: AADT Current Year (2018): 150 Traffic Projections Perform Date approved by the GD0 Functional Classification	Open Year (2 ned by: Michael Bake OT Office of Planning	r International : August 17, 201		gn Year (2042): <u>150</u>
Complete Streets - Bicyc	cle, Pedestrian, and/	or Transit Stand	ards Warrants:	
Warrants met:	None □Bicycl	e ⊠Pede:	strian \Box	Transit
Pavement Evaluation and Initial Pavement Evaluation Initial Pavement Type Se Feasible Pavement Alter	ion Summary Report election Report Requi	Required?	⊠No	□Yes □Yes □HMA & PCC

DESIGN AND STRUCTURAL

Description of Proposed Project:

The proposed project would replace the existing truss bridge on CR 38 (Shallowford Bridge Road) over Toccoa River. The project begins at the intersection of CR 38 and Shallowford Bridge Lane and continues east approximately 252 feet to the intersection with Aska Road. Total project length is approimately 252 feet. The project is located approximately 9.4 miles south of Blue Ridge, GA in Fannin County. This project would replace the existing substandard bridge with a new truss bridge offset approximately 150 feet south (downstream) of the existing bridge. The proposed bridge typical section consist of two 9-foot lanes with a 2-foot shoulder on the left side and a 11-foot 6-inch shoulder (10-foot sidewalk on the right side). The Benton MacKaye Trail crosses the existing bridge and will be relocated to the new bridge. Fannin County requested to retain the existing truss bridge in its current location. Per discussion at the stakeholder meeting held on 03/14/2018, GDOT Bridge office will accept leaving the existing truss bridge in place under the condition that

County: Fannin

a Memorandum of Understanding is executed between the department and Fannin County, designating the County as responsible for all inspection cost, maintenance cost and risk associated with leaving the bridge in place. It must be closed to all vehicular traffic as this bridge is scoped to replace a deficient bridge. It also, may not be feasible or practical to raise the carrying capacity to meet AASHTO pedestrian loading.

P.I. Number: 0014167

Major Structures:

Structure ID	Existing	Proposed
111-5007-0	Built in 1918; 175 feet long three span truss bridge (2-20 foot spans and one 135 foot center span) with one 11.4 foot lane and a vertical clearance of 10 foot 6 inches. Sufficiency rating 7.6.	Proposed 195 foot long single span truss bridge consisting of two (2) - 9 ft lanes; a 2 foot shoulder on the left side; a 11 foot 6 inch shoulder (10 foot sidewalk) on the right side; total bridge width 31.5 feet.

Accelerated Bridge Construction (ABC) techniques anticipated: ✓ No ✓ Yes

The existing bridge will be replaced with a new bridge on a parallel alignment approximately 150 feet south of the existing bridge. The proposed structure will be designed to meet current design loading and shoulder width requirements.

To reduce traffic impacts and on site construction time, potential ABC techniques being considered include:

- Use of prefabricated concrete columns and/or bent caps.
- Use of prefabricated truss structure.
- Structure constructed off-site.

The proposed truss bridge has a smaller structure depth than a prestressed concrete girder, which creates a better hydraulic opening at a lower elevation, while maintaining a road grade that can be constructed with minimal impacts to the existing road. This alternate will not require a closure and traffic will be maintained throughout the construction of the project.

Mainline Design Features: CR 38 (Shallowford Bridge Road) over Toccoa River

Feature	Existing	Policy*	Proposed*
Typical Section - Roadway			
- Number of Lanes	N/A		2
- Lane Width(s)	N/A	9 feet	9 feet
- Median Width & Type	N/A	N/A	N/A
- Right Shoulder Width	N/A	2 feet	12.5 feet
- Left/Right Shoulder Slope	N/A	6	Left 6%; Right 2%
- Left Shoulder Width	N/A	2 feet	2 feet
- Sidewalks	N/A	N/A	Left N/A; Right 10 ft
- Auxiliary Lanes	N/A		N/A
- Bike Accommodations	N/A	N/A	N/A
Posted Speed	N/A		25
Design Speed	N/A	25	25
Minimum Horizontal Curve Radius	N/A	N/A	TANGENT
Maximum Superelevation Rate	N/A	N/A	N/A
Maximum Grade	N/A	7%	2.74%
Access Control	N/A		PERMIT
Design Vehicle	N/A		WB-67
Pavement Type	N/A		Asphalt

^{*}According to current GDOT design policy/AASHTO if applicable.

County: Fannin					
Is the project located of	on a NHS roadv	vay? ⊠ No	o □ Yes		
Design Exceptions/De Yes, for hydraulic clears included in the Concept specific overtopping sto existing bridge. And bas GA and elsewhere, is a could approximately be approach roadway cons the required design load to the low cord will be g storm at all, and likely b	ance. The detaile Phase scope. In rm. Based on cused on our experpproximately the 5-year even straints, the propers and desire to reater. All this portal phase straints are the straints.	ed hydraulic menthe Prelimina arrent FEMA datise and experes 2-year storm. It. The existing osed bridge weep substructions to a replace	odeling required ary Design Phase ata the 10-year s rience the bankfu If the channel is bridge may not bridge may not ture out of the chance cement bridge n	for this determinate this will be detailed to many rules slightly, or somewhere these storms or near the existing mannel, the distance to being able to clear these storms of the distance to the stance of the stan	tion is not ed, yielding the evertops the ural channels, in what incised it seither. With the profile. And with ce from the deck ear the design
Design Variances to G	DOT Standard	Criteria antic	ipated: See abo	ve	
Lighting required:	⊠ No	□ Ye	es		
Off-site Detours Antici	pated:	⊠ No	☐ Undetermi	ned ☐ Yes	
Transportation Manag If Yes: Project class TMP Components A	ified as:		n-Significant	⊠ Yes	
INTERCHANGE	S AND INTI	ERSECTION	ONS		
Major Interchanges/Int	tersections: No	one			
Intersection Control E	valuation (ICE)	Required:	⊠ No	☐ Yes	
Roundabout Peer Revi	iew Required:	⊠ No	☐ Yes	☐ Completed –	Date:
UTILITY AND PE	ROPERTY				
Railroad Involvement:	N/A				
Utility Involvements: Blue Ridge Mountain ENTDS Telecom	МС				
SUE Required:	⊠ No	□Yes			
Public Interest Determ	ination Policy a	and Procedure	e recommended	d? ⊠ No	□ Yes
Right-of-Way:	Existing width:	0 feet	Proposed wid	dth: <u>Varies 90-100</u>	<u>)</u> feet
Required Right-of-Way a Easements anticipated:	•	□ None□ Temporary	⊠ Ye / ⊠ Permanen		determined ☐ Other
	Anticipated to Displacements	anticipated:	impacted parce Businesse Residence Othe tal Displacement	es: 0 es: 0 er: 0	

P.I. Number: 0014167

Limited Scope Concept Report – Page 6 County: Fannin		P.I. Nu	mber: 0014167
Impacts to USACE property anticipated?	⊠ No	□ Yes	☐ Undetermined
CONTEXT SENSITIVE SOLUTIO	NS		
Issues of Concern: None			
Context Sensitive Solutions Proposed: None			
ENVIRONMENTAL AND PERMIT	ΓS		
Anticipated Environmental Document: NEPA: □ PCE ☒ CE GEPA: □ Type A □ Type B	□ EA-FONS □ None	I	
Level of Environmental Analysis:			
The environmental considerations noted be environmental analysis and are subject to delineation, and agency concurrence.			
☐ The environmental considerations noted bel identification, delineation, and agency concu		the completion	of resource
Water Quality Requirements: MS4 Compliance – Is the project located in a	n MS4 area?	⊠ No	□ Yes
ls Non-MS4 water quality mitigation anticipa	ted? □ No	⊠ Yes	
Environmental Permits, Variances, Commitment	s, and Coordinat	ion Anticipated:	

- A Clean Water Act Section 404 permit will be required.
- A State buffer variance is not anticipated to be required.
- Agency coordination is anticipated to be required under Section 7 of the Endangered Species Act.
- Agency coordination is anticipated to be required under Section 106 of the National Historic Preservation Act and under Section 4(f) of the Department of Transportation Act.

NEPA Comments & Information:

- **Ecology** The state-protected trailing meadowrue was identified in the project area during the spring field survey; a fall survey is required for additional protected plant species. The state-protected Eastern hellbender and the state protected blotched chub, tangerine darter, olive darter, and wounded darter are assumed present per GDNR-WRD. A bat habitat suitability survey is required for the federally protected northern long-eared bat and Indiana bat. BMPs will be included in SP 107.23H for the protection of federally and state-listed species identified in the project area. One perennial stream and one intermittent tributary were identified in the project area; a 404 permit will be required for impacts to perennial stream, a state buffer variance is not anticipated to be required.
- History Section 106 Early Coordination was submitted to SHPO and other consulting parties on April 12, 2018. Fieldwork was conducted and the Final Historic Resources Survey Report submitted to GDOT on June 27, 2018. The existing bridge (GDOT Bridge #111-5007-0) was determined to be eligible for inclusion on the National Register of Historic Places by the Georgia Historic Bridge Survey in 1981, and these findings remain valid. No other eligible resources were identified during field survey.
- Archaeology Section 106 Early Coordination Notification was submitted and a site file search was completed, which revealed no previously surveyed archaeological resources. Fieldwork is underway, and a Short Form No Find Report is anticipated.
- Air Quality An Air Assessment is anticipated to be required. Fannin County is not classified as either a non-attainment area or a maintenance area.
- Noise A Type III Noise Screening Assessment is anticipated to be required. There are noisesensitive receptors (residences) in the vicinity of the project area.
- **Public Involvement** A PIOH is anticipated to be conducted.

County: Fannin

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Is Federal Aviation Administration (FAA) coordination anticipated? ⋈ No ☐ Yes

Project Meetings: Project Kick-off Meeting 01-10-2018, Monthly Status Call Team Meeting 02-28-2018, Concept Team Meeting 04-19-2018

P.I. Number: 0014167

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Long Engineering
Design	Long Engineering
Right-of-Way Acquisition	GDOT
Utility Coordination (Preconstruction)	GDOT
Utility Relocation (Construction)	Utility Owners
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	Long Engineering
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	Long Engineering/GDOT

Other coordination to date:

Project Cost Estimate and Funding Responsibilities:

	PE Activities					
	PE Funding	Section 404 Mitigation	ROW**	Reimbursable Utilities	CST*	Total Cost
Funded By	GDOT	GDOT	GDOT	GDOT	GDOT	
\$ Amount	\$500,000	\$12,000	\$330,564	\$31,304	\$2,192,783.68	\$3,066,651.68
Date of Estimate	12/29/17	03/26/18	05/14/18	04/19/18	07/09/18	

^{*}CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

Preferred Alternative (Alternative 1): Retain existing bridge and construct a new bridge							
approximately 150 feet south of the existing bridge.							
Estimated Property Impacts: 3 Estimated Total Cost: \$3,066,651.68							
Estimated ROW Cost:							

Rationale: This is the preferred alternate because 1) it accommodates Fannin County's request to leave the existing historic truss bridge in place, 2) it eliminates the need for an offsite detour, to which the County has expressed opposition, 3) it meets the need and purpose of the project, and 4) it saves demolition costs of the existing truss bridge. Anticipated property impacts are the following: additional ROW will be required, with no anticipated displacements; the existing parking will be affected along Aska Road. Fannin County has expressed opposition to removing the existing bridge and implementing an off-site detour. The County's opposition is primarily due to the length (distance and time) and pavement/surface conditions of roads of the proposed detour route.

County: Fannin

Alternative 2: Retain existing bridge and construct a new bridge approximately 275 feet north of the existing bridge.

P.I. Number: 0014167

Estimated Property Impacts:	4	Estimated Total Cost:	\$3,395,529.03
Estimated ROW Cost:	\$396,676.00	Estimated CST Time:	15 Months

Rationale: This alternate has similar attributes to the preferred alternate. However, it was not selected as the preferred alternate primarily because of the anticipated increased construction cost and the potential complexity of the right-of-way (row) acquisition. Construction cost of this alternate is higher than the preferred alternate primarily because the Shallowford Road intersection will require increased construction complexity to avoid encroachment into the Toccoa River. The existing topography creates a challenge tying Shallowford Road to the proposed bridge approach.

Right-of-way acquisition of this alternate will likely require property owned by Tennessee Valley Authority (TVA), a federal entity. This could increase cost and lengthen the overall project schedule. Anticipated property impacts are as follows, 1) right-of-way will be required from four parcels, including property from TVA, 2) no total displacements are shown but significant damages are likely to property on Shallowford Road aligned with the new bridge location due to westbound traffic. River front access to this property will likely be eliminated. Maintaining access to the property during construction will also be a challenge. Fannin County has expressed opposition to removing the existing bridge and implementing an off-site detour. The County's opposition is primarily due to the length (distance and time) and pavement/surface conditions of the roads of the proposed detour route.

Alternative 3: Demolish and replace the bridge at its current location with an off-site detour.

Estimated Property Impacts:	1	Estimated Total Cost:	\$3,534,947.24
Estimated ROW Cost:	\$196,000.00	Estimated CST Time:	18 Months

Rationale: This alternate was not selected as preferred because 1) it does not accommodate Fannin County's request to leave the existing historic truss bridge in place, 2) the County has expressed opposition to an off-site detour, 3) The construcion costs will be higher thanthe preferred alternate, 4) total project cost is higher due to the added demolition costs. Anticipated property impacts are the following: additional ROW will be required, with no anticipated displacements, this is comparable to the preferred alternate; the existing parking will be affected along Aska Road; an approximately 10-mile off-site detour will be required along varying pavement surfaces/conditions of roads on the only available detour route.

No-Build Alternative: Retain existing CR 38 Bridge over Toccoa River and do not build a replacement bridge.

Estimated Property Impacts:	0	Estimated Total Cost:	\$0
Estimated ROW Cost:	\$0	Estimated CST Time:	N/A

Rationale: Due to the age of the bridge, the overall sufficiency rating, and structural integrity of the substructure, replacement is recommended. This alternate was not selected as preferred because it does not meet the project justification statement.

Limited Scope Concept Report – Page 9 P.I. Number: 0014167

County: Fannin

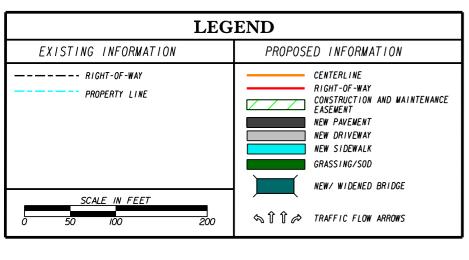
Additional Comments/Information:

Stan Helton, Board of Commissioner, Chairman, Fannin County, indicated that they could adopt Shallowford Bridge Road portion of the proposed project that is currently held as private, thus making it a county road with prescriptive right-of-way.

LIST OF ATTACHMENTS / SUPPORTING DATA

- 1. Concept Layout
- 2. Typical Sections
- 3. Cost Estimate
- 4. Approved Traffic Memo dated August 17, 2018
- 5. Detour Route Map (Alternative #3)
- 6. Meeting Minutes Draft Concept Team Meeting
- 7. Bridge Inventory

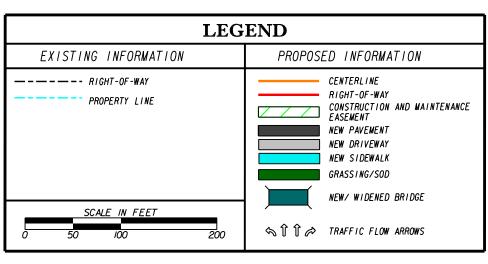






CONCEPTUAL LAYOUT PREFERRED ALTERNATE *1 NEW PERMANENT BRIDGE AND ALIGNMENT
PI *0014167
CR 38 / SHALLOWFORD BRIDGE RD
OVER TOCCOA RIVER



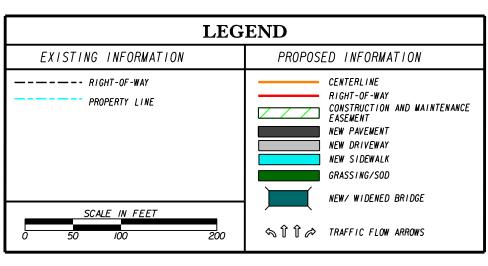




CONCEPTUAL LAYOUT ALTERNATE *2

NEW PERMANENT BRIDGE AND ALIGNMENT
PI *0014167
CR 38 / SHALLOWFORD BRIDGE RD
OVER TOCCOA RIVER

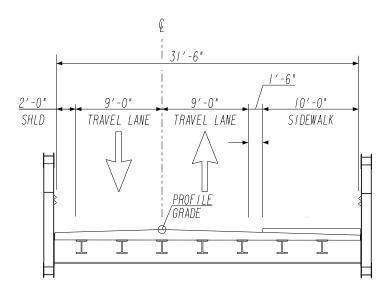




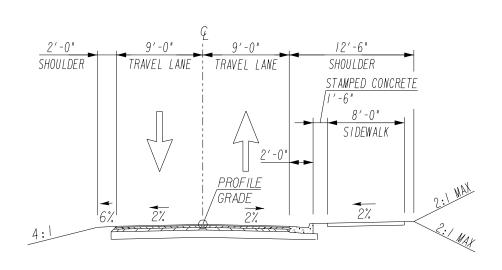


CONCEPTUAL LAYOUT ALTERNATE * 3

REMOVE/REPLACE EXISTING BRIDGE
PI *0014167
CR 38 / SHALLOWFORD BRIDGE RD
OVER TOCCOA RIVER



BRIDGE TYPICAL SECTION



ROADWAY TANGENT SECTION



CONCEPTUAL TYPICAL SECTIONS
PREFERRED ALTERNATE #1,
ALT #2 & ALT #3

PI •0014167 CR 38 / SHALLOWFORD BRIDGE ROAD OVER TOCCOA RIVER

(SHEET I OF I)

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE	P.I. No.		0014167	OF	FICE	Program Delivery					
PROJE	PROJECT DESCRIPTION										
CR 38/S	HALLOWF	ORI	BRIDGE ROAD @ TOCCOA RIVE	R S OF							
MORGO	ONTON			DA'	TE	August 24, 2018					
From:	Kimberly N	Nest	oitt, State Program Delivery Administra	ator							
			<u> </u>								
To:	-		State Project Review Engineer								
	via Email I	viail	box: CostEstimatesandUpdates@do	t.ga.gov							
Subjects	REVISION	IS T	O PROGRAMMED COSTS								
Bubject	, ICL V 15101	10 1	TROGRAMMED COSTS	MGMT LET DAT	Έ	9/15/2020					
PROJEC	CT MANAG	ER	Jeff Henry								
				MGMT ROW DA	TE	10/15/2019					
PROGR	RAMMED C	COS	TS (TPro W/OUT INFLATION)]	LAST :	ESTIMATE UPDATE					
CONST	DIICTION	φ	2,000,000.00	DA	TE	N/A					
CONST	RUCTION	\$, ,								
	OF WAY	\$	250,000.00	DA		N/A					
			250,000.00	DA							
	OF WAY		, ,	DA'	TE	N/A N/A					
RIGHT (OF WAY	\$	250,000.00		TE						
RIGHT (UTILITI REVISE	OF WAY	\$	250,000.00		TE						
RIGHT (UTILITI REVISE CONST!	OF WAY IES E D COST E	\$ \$ <u>STI</u>	250,000.00 0.00 MATES		TE						
RIGHT (UTILITI REVISE CONST!	OF WAY TES ED COST E RUCTION* OF WAY**	\$ \$ <u>STI</u> \$	250,000.00 0.00 MATES 2,192,783.68		TE						

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

- * The construction cost estimate in this Revision is per the CST estimate provided by the consultant (Long Engineering) with the Approved Concept Report.
- ** Utilities and ROW estimates cost were provided by the District Utilities Engineer and State ROW Office.
- *** 12% contingency was used based on Risk Based Cost Estimating recommended contingency range for concept level estimates.

CONTINGENCY SUMMARY

Α.	CONSTRUCTION COST ESTIMATE:	\$ 1,862,121.84	Base Estimate From CES	
В.	ENGINEERING AND INSPECTION (E & I):	\$ 93,106.09	Base Estimate (A) x 5	%
C.	CONTINGENCY:	\$ 234,627.35	Base Estimate (A) + E & I (B) x See % Table in "Risk Based Cost Estimation" Memo	%
D.	TOTAL LIQUID AC ADJUSTMENT:	\$ 2,928.40	Total From Liquid AC Spreadsheet	
Ε.	CONSTRUCTION TOTAL:	\$ 2,192,783.68	(A + B + C + D = E)	

REIMBURSABLE UTILTY COSTS

UTILITY OWNER	REIMBURSABLE COST
Blue Ridge Mtn EMC	\$31,304
	-
TOTAL	\$ 31,304.00
ATTACHMENTS: (File Copy in the Project Cost Estim	ato Folder)
CES estimate provided with draft concept report s	
PSR	
Liquid AC Adjustment Spreadsheet	
	Page 2

Consultant Validation of Final QC/QA for Construction Cost Estimate Used in This Revision To Programmed Costs

COMPANY NAME:	Long Engineering, Inc.
VALI	DATION OF FINAL QC/QA
PRINTED NAME:	Anthony Kamburis, PE
TITLE:	Project Manager
SIGNATURE:	and Have
DATE:	08/24/2018

 PROJ. NO.
 N/A
 CALL NO.

 P.I. NO.
 0014167

 DATE
 8/24/2018

 INDEX (TYPE)
 DATE
 INDEX

 REG. UNLEADED
 Aug-18
 \$ 2.729

 DIESEL
 \$ 3.078

 LIQUID AC
 \$ 541.00

TOTAL LIQUID AC ADJUSTMENT

Link to Fuel and AC Index:

 $\underline{\text{http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx}}$

2,928.40

\$

LIQUID AC		\$ 541.00						
LIQUID AC ADJUSTME	NTS							
PA=[((APM-APL)/APL)]xTMTxAPL							
Asphalt								
Price Adjustment (PA)							2694.18	\$ 2,694.18
Monthly Asphalt Ceme				Max. Cap	60%	\$	865.60	
	Monthly Asphalt Cement Price month project let (APL) Fotal Monthly Tonnage of asphalt cement (TMT)					\$	541.00	
Total Monthly To	nnage of asp	halt cemen	t (TMT)				8.3	
ASPHALT	Tons	%AC	AC ton					
Leveling	50	5.0%	2.5					
12.5 OGFC		5.0%	0					
12.5 mm		5.0%	0					
9.5 mm SP	23	5.0%	1.15					
25 mm SP	56	5.0%	2.8					
19 mm SP	37 166	5.0%	1.85 8.3	-				
	100		6.5					
BITUMINOUS TACK CO	DAT							
Price Adjustment (PA)						\$	234.22	\$ 234.22
Monthly Asphalt Ceme				Max. Cap	60%	\$	865.60	
Monthly Asphalt Ceme			L)			\$	541.00	
Total Monthly Tonnage	e of asphalt cem	nent (TMT)				0	.721576955	
Bitum Tack								
Gals	gals/ton	tons						
168	232.8234	0.72157695						
BITUMINOUS TACK CO	OAT (surface tre	atment)						
Price Adjustment (PA)							0	\$ -
Monthly Asphalt Ceme	ent Price month	placed (APM)		Max. Cap	60%	\$	865.60	
Monthly Asphalt Ceme			·L)			\$	541.00	
Total Monthly Tonnage	e of asphalt cem	nent (TMT)					0	
Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons			
c: 1 c c = .		0.20	0	232.8234	0			
Single Surf. Trmt.		0.44	0	232.8234	0			
Double Surf.Trmt.								
•		0.71	0	232.8234	0 0			

STATE HIGHWAY AGENCY

DATE : 08/24/2018

PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : PI 0014167 SPEC YEAR: 13

DESCRIPTION: CR38/SHALLOWFORD BRIDGE RD @ TOCCOA RIVER - PREFERRED

COST GROUPS FOR JOB PI 0014167

COST GRO	OUP DESCRIPTION	QUANTITY	PRICE	AMOUNT ACTIVE?
ASPH BASE EROC	ASPHALT (TN) BASE/AGGREGATE (TN) EROSION CONTROL (SY)			Y Y Y Y
	COST GROUP TOTAL D COST GROUP TOTAL			0.00

ITEMS FOR JOB PI 0014167

LINE	ITEM	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000	 LS	TRAFFIC CONTROL - PI 0014167 FIELD ENGINEERS OFFICE TP 3 TEMPORARY GRASSING MULCH CONSTRUCTION EXIT	1.000	20000.00	20000.00
0009	153-1300	EA	FIELD ENGINEERS OFFICE TP 3	1.000	96425.92	96425.93
0010	163-0232	AC	TEMPORARY GRASSING	2.000	538.70	1077.40
0015	163-0240	TN	MULCH	22.000	387.32	8521.23
0020	163-0300	EA	CONSTRUCTION EXIT	2.000	1612.33	3224.67
0030	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	12.000	404.85	4858.31
0100	163-0529	LF	CNST/REM TEMP SED BAR OR BLD STRW CK DM	400.000	5.74	2297.13
0130	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C MAINT OF CHECK DAMS - ALL TYPES MAINT OF CONST EXIT WATER QUALITY MONITORING AND SAMPLING	650.000	2.06	1344.03
0134	165-0041	$_{ m LF}$	MAINT OF CHECK DAMS - ALL TYPES	400.000	7.44	2977.31
0140	165-0101	EA	MAINT OF CONST EXIT	2.000	564.68	1129.37
0155	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	4.000	180.98	723.93
	167-1500	MO	WATER QUALITY INSPECTIONS	12.000	723.39	
	171-0030	$_{ m LF}$	TEMPORARY SILT FENCE, TYPE C	650.000	3.59	2335.57
0170	210-0100	LS	GRADING COMPLETE - PI 0014167	1.000	115000.00	115000.00
	310-1101	TN	GR AGGR BASE CRS, INCL MATL	94.000	27.18	2554.92
	318-3000	\mathtt{TN}	AGGR SURF CRS	200.000		4858.00
0185	402-1812	\mathtt{TN}	RECYL AC LEVELING, INC BM&HL REC AC 9.5 MM SP, TPII, GP2, INCL BM & H	50.000	77.82	3891.22
0190	402-3103	TN	REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L	23.000	149.10	3429.43
0195	402-3121	TN	RECYL AC 25MM SP,GP1/2,BM&HL	56.000	97.93	5484.17
0200	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	37.000	130.73	4837.10
0205	413-0750	GL	TACK COAT MILL ASPH CONC PVMT, VARB DEPTH REF CONC APPR SL/INCL CURB CONC SIDEWALK, 6 IN CONC SPILLWAY, TP 1	168.000		423.36
0209	432-5010	SY	MILL ASPH CONC PVMT, VARB DEPTH	123.000	13.16	1618.75
0214	433-1100	SY	REF CONC APPR SL/INCL CURB	210.000	195.23	41000.25
0215	441-0106	SY	CONC SIDEWALK, 6 IN	285.000	59.51	16960.93
0220	441-0301	EA	CONC SPILLWAY, TP 1	2.000		
0224	441-6222	LF	CONC CURB & GUTTER/ 8X30TP2	125.000	38.31	4789.03
0225	543-9000	LS	CONSTR OF BRIDGE COMPLETE - 160' X 31.	1.000	1451520.00	1451520.00

DATE : 08/24/2018

PAGE : 2

JOB ESTIMATE REPORT

_______ 5' SINGLE SPAN TRUSS 0230 576-1018 SLOPE DRAIN PIPE, 18 IN 60.000 44.62 55.00 2677.72 $_{
m LF}$ 0235 603-2018 SY STN DUMPED RIP RAP, TP 1, 18 250.000 13750.00 250.000 4.55 10.000 178.44 20.000 21.36 1133.50 SY PLASTIC FILTER FABRIC 0240 603-7000 SY PLASTIC FILTER FABRIC
0245 634-1200 EA RIGHT OF WAY MARKERS
0250 636-1033 SF HWY SIGNS, TP1MAT, REFL SH TP 9
0255 636-1036 SF HWY SGN, TP1MAT, REFL SH TP 11
0260 636-2070 LF GALV STEEL POSTS, TP 7
0264 641-1200 LF GUARDRAIL, TP W
0265 641-5001 EA GUARDRAIL ANCHOR, TP 12B,31 IN, FLR, E/A 0240 603-7000 1784.49 427.31 25.000 20.00 500.00 144.000 9.44 1359.50 240.000 25.35 6085.44 2.000 1132.14 2264.29 2.000 2860.57 5721.14 144.000 240.000
 0270
 653-1501
 LF
 THERMO SOLID TRAF ST 5 IN, WHI

 0275
 653-1502
 LF
 THERMO SOLID TRAF ST, 5 IN YEL

 0280
 654-1001
 EA
 RAISED PVMT MARKERS TP 1

 0285
 657-1054
 LF
 PRF PL SD PVMT MKG,5,WH,TP PB

 0290
 657-6054
 LF
 PRF PL SD PVMT MKG,5,YW,TP PB

 0295
 700-6910
 AC
 PERMANENT GRASSING

 0300
 700-7000
 TN
 AGRICULTURAL LIME

 0305
 700-8000
 TN
 FERTILIZER MIXED GRADE

 0310
 700-8100
 LB
 FERTILIZER NITROGEN CONTENT

 0315
 716-2000
 SY
 EROSION CONTROL MATS, SLOPES

 0320
 900-0037
 SF
 CONCRETE PAVERS
 390.000 1.11 390.000 1.04 435.01 408.07 6.000 5.02 390.000 5.59 390.000 3.59 2.000 789.73 2.000 131.77 2.000 697.20 53.000 4.13 30.13 2183.11 1400.49 390.000 1579.47 263.54 1394.40 263.54 4.13 445.000 1.35 240.000 15.00 219.09 600.76 3600.00 ITEM TOTAL 1862121.86 INFLATED ITEM TOTAL 1862121.86 TOTALS FOR JOB PI 0014167

ESTIMATED COST:

CONTINGENCY PERCENT (0.0):

0.00

ESTIMATED TOTAL:

EUTIFATED TOTAL.

NOTE: The item totals include all alternate items. The estimated totals include only the low cost alternate items.

From:

Coleman, Jeanine E

Sent:

Wednesday, May 16, 2018 9:05 AM

To:

Henry, Jeff

Cc: Subject: Savage, Bruce RE: PI#0014167 Fannin ROW

Attachments:

PI# 0014167 Preliminary ROW Cost Estimate.pdf

Jeff,

Attached is the preliminary cost estimate you requested.

Please let us know if you need anything else

Thank you,

Jeanine Coleman

DOT

District 6

Right of Way Specialist 11 500 Joe Frank Harris PKWY

Cartersville, GA 30120

Office: (678)721-5300

JColeman@dot.ga.gov





From: Henry, Jeff

Sent: Friday, May 11, 2018 1:46 PM

To: Coleman, Jeanine E < JColeman@dot.ga.gov>

Cc: Savage, Bruce
bsavage@dot.ga.gov>
Subject: RE: PI#0014167 Fannin ROW

Jeanine,

Attached is the latest concept layout submitted yesterday in the concept report submittal. The standard checklist is attached for your reference.

The approx. total REQ ROW is 16,000 sq. ft. and three parcels are impacted.

If you need anything else, let me know.

Thanks,

Jeff Henry, PE Consultant Project Manager

Georgia Department of Transportation
Office of Program Delivery/AECOM

600 West Peachtree St, 25th Floor

Atlanta, GA 30308 Mobile: (404) 663-8649 E-mail: jhenry@dot.ga.gov

From: Coleman, Jeanine E

Sent: Friday, May 11, 2018 10:35 AM

To: Henry, Jeff < JHenry@dot.ga.gov >
Cc: Savage, Bruce < bsavage@dot.ga.gov >

Subject: PI#0014167 Fannin

Mr. Henry,

I have been assigned to prepare a preliminary cost estimate for the Project mentioned above. Do you have anything that shows the required right of way area needed?

Thank you,

Jeanine Coleman
DOT
District 6
Right of Way Specialist 11
500 Joe Frank Harris PKWY
Cartersville, GA 30120
Office: (678)721-5300



JColeman@dot.ga.gov



There's road work ahead. And roadway work zones are hazardous for workers and the public. In fact, most victims in work zone crashes are drivers or passengers. Work zone safety is everybody's responsibility - pay attention – slow down – watch for workers - expect the unexpected. And whenever you drive, always **Drive Alert Arrive Alive** - buckle up; stay off the phone and no texting. Visit www.dot.ga.gov.

Preliminary Right of Way Cost Estimate

DATE: 5/14/18 P.I. NUMBER: 0014167 PROJECT: 0014167 NO. PARCELS: 3 EXISTING/REQUIRED R/W: .36 acre/16,000 SQ Feet PROJECT TERMINI: STA TBD PROJECT DESCRIPTION: Bridge Replacement on CR 38/Shallowford Bridge Road@Toccoa River Land: Residential: .12 ac @\$76,800 = \$9,200 Residential: .12 ac @\$76,800 = \$9,200 Commercial: .12 ac @ \$310,000 =\$37,200 \$55,600 Improvements: _x_businesses, ___houses, ___mobile homes, curbing Gravel, Paving, signs, fencing and site improvements \$20,000 Relocation: Commercial @25,000/parcel = \$ \$0 Residential @ \$20,000/parcel =\$ \$0 Damages: Proximity-Parcels Consequential-Parcels Cost to Cure-Parcels \$6425 Net Cost \$82,025 Scheduling Contingency 55% \$45,115 Sub-Total \$127,140 Adm/Court Cost 60% \$76,284 Total \$330,564 TOTAL COST \$330,564 Prepared by: <u>Jeanine Coleman</u> Approved: **GDOT ROW**

Original Version: May 24, 2013

Concept Utility Report

Project Number:	District: 6			
County: Fannin	Prepared by: Kipp Champion			
P.I. # <u>0014167</u>	Date: 4/19/2018			
Project Description: <u>CR 38 / Shallowford Bridge Ro</u>	d @ Toccoa River			
The information provided herein has been gathered from Nothing contained in this report is to be used as a substitution.	om Georgia811and/or field visits and serves as an estimate. itute for 1 st Submission or SUE.			
Are SUE services recommended? No Level:	A B C D			
Public Interest Determination (PID): Autom	atic Mandatory Consideration			
☐ No Use	EXEMPT			
Is a separate utility funding phase recommended	? No			
Existing Facilities: Yes				
Potential Project (Schedule/Budget) Impacts: No				
Capital Improvement Projects (Utilities) Anticipated in the Area: NO				
Project Specific Recommendations for Avoidance/Mitigation: N/A				
Right of Way Coordination: N/A				
Environmental Coordination: <u>N/A</u>				
Additional Remarks: Alternate 1 estimates				

Original Version: May 24, 2013

The following utilities have facilities within the project limits. Utilities have been located using Georgia811 and/or field visits.

Existing Facilties/Appurtenances	Approximate Limits (Station/Offset)	Reimbursable cost (est.)	Non- reimbursable cost (est.)	Facilities to Avoid (Station/Offset)	Facility Retention Recommended	Comments
Blue Ridge Mtn EMC		\$31,304.00				relocate on EMC easement
TDS Telecom			\$50,082.00			

From: Westberry, Lisa

Sent: Monday, March 26, 2018 9:48 AM

To: Henry, Jeff Cc: Allen, Jordan J

Subject: P.I. 0014167, Fannin County - Estimated Mitigation Cost for Concept Report

Jeff,

As requested, the estimated mitigation costs for the subject project is **\$12,000**. This was based on a review of aerial photography, NWI mapping, and NRCS soil surveys and not an actual field verification. The total cost of mitigation credits could remain the same or change once the ecology field survey is complete.

If you should have any questions or need any additional information, please do not hesitate to contact me.

Thank you,

Lisa Westberry | Special Projects Coordinator | Office of Environmental Services | 600 West Peachtree Street, NW | Atlanta, GA 30308 | 404-631-1772

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Fannin County OFFICE Planning

P.I. # 0014167

DATE August 17, 2018

FROM Paul Tanner, State Transportation Planning Administrator

TO Kimberly W. Nesbitt, State Program Delivery Administrator

Attention: Jeff Henry

SUBJECT Design Traffic Forecasts for CR 38/SHALLOWFORD BRIDGE ROAD @

TOCCOA RIVER S OF MORGONTON

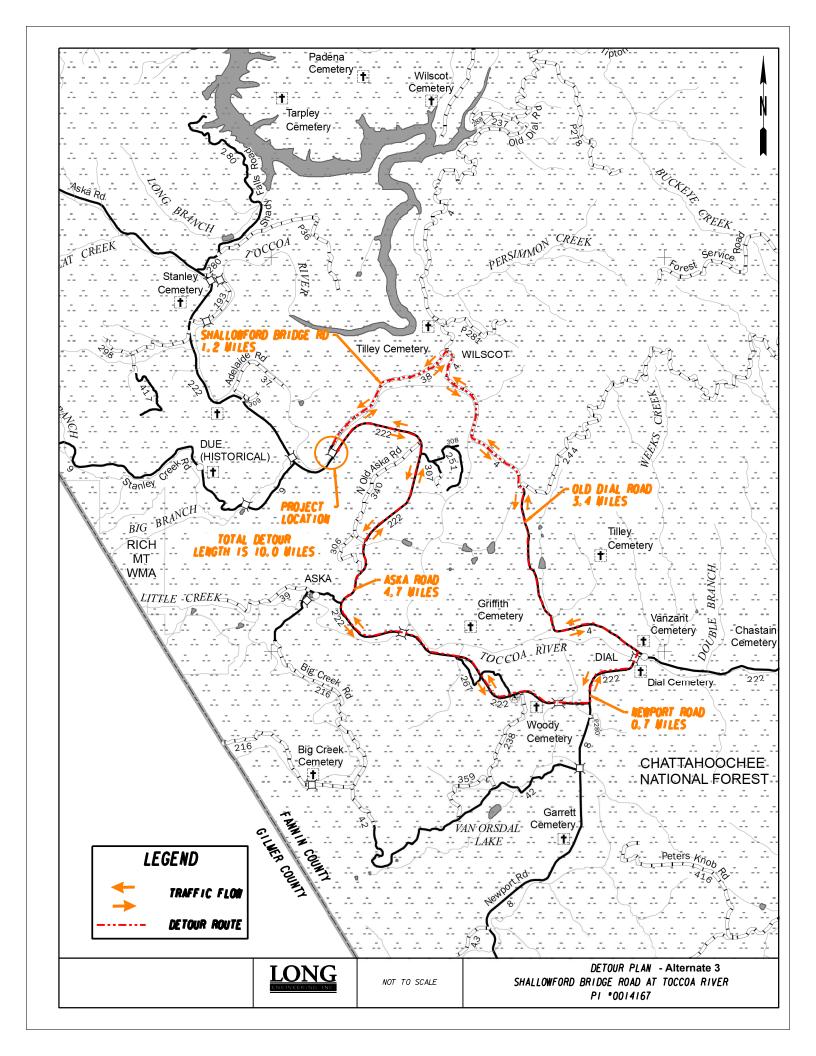
Per request, we have reviewed the consultant's design traffic forecasts for the above project. Based on the information furnished, we find the design traffic forecasts to be satisfactory, and the design traffic forecasting task to be complete for the above project. The reviewed and approved design traffic forecasts for the above project is as follows:

BRIDGE ID # 111-5007-0

Build = No Build	2018	2022	2024	2042	2044 (Danima Vana + 2)
	(Existing Year)	(Base Year)	(Base Year +2)	(Design Year)	(Design Year + 2)
AADT	150	150	150	150	150
DHV (AM/PM)	10/15	10/15	10/15	10/15	10/15
K% (AM/PM)	4.0%/10.0%				
D% (AM/PM)	60.0%/54.0%				
24 HR. T% - S.U.	4.0%				
24 HR. T% - COMB.	1.0%		Same as	Existing Year	
24 HR. T% - TOTAL	5.0%				
T% - S.U. (AM/PM)	0.0%/8.0%				
T% - COMB. (AM/PM)	0.0%/0.0%				
T% - TOTAL (AM/PM)	0.0%/8.0%				

If you have any questions concerning this information please contact Andre Washington at 404-631-1925.

Nithin Gomez Gresham, Smith and Partners Design Traffic Review Consultant to GDOT 678-478-3350



PI 0014167, Fannin County Georgia Department of Transportation Bridge Replacement Project Detour Impact Form for County Administrator

Using the attached project map, please respond to the questions below. Please provide as much information as you feel is necessary. Please respond to all questions – use "N/A" or "Non-known" if no relevant information to question is available. If you need additional information or mapping for this project, please contact us.

1. Please quantify the number o	f impacts anticipated by an off-site detour.
Daily Number of vehicle	s Unitrown
Daily Number of Trucks	Weight last. restricts trucks
Number of Residences	
Number of Businesses	3
Detour Length .	10 miles
- '	ce if the bridge were closed for up to a year?
No Concerns	☐ Moderate Concerns ☑ Major Concerns
Satulance Service,	ease specify what they are below, be as specific as possible (Conditions of detour route, ment expected, weight restrictions, etc.) Law Enforcement response, lo mile 1. Infact on 3 local businesses.
note the event and any details you	ds or events that you know of where bridge closure would be of particular concern? Please are familiar with.
and Summer Visi	
5. Is there anyone you feel we sho reason we should contact them?	uld contact specifically regarding this project? Please note their name, phone number, and
would use?	ents you have regarding the project? Are the road names referenced the names the locals
Thousal De Vehicle	Estricted but left standing as a bridge. This world be the best on the.
THE PARTY OF THE P	er .
	R. Stacky Helton
(Title): Date:	Mair mon



Project Meeting Minutes

Project: Concept Team Meeting

Bridge Replacement on CR-38/Shallowford Bridge Road over Toccoa River

PI No.0014167- Fannin County

Meeting Date: April 19, 2018

Attendees: SEE ATTACHED

Minutes Prepared by Long Engineering, Inc.

Jeff Henry, the GDOT PM, started the meeting by going around the room for introductions and introduced the project, then turned over the meeting to Marc Thompson of Long Engineering, Inc to go over the project. A brief description of the existing and proposed conditions of the project were discussed, then the preliminary concept report was reviewed page by page.

The following items were discussed:

General Comments:

- The Benton MacKaye Trail (BMT) crosses the existing bridge.
- Lisa with GDOT commented that the BMT will have to be officially moved to the new bridge.
- David with GDOT noted that the alternatives discussion on page 7 of the report should mention the fact that the existing bridge will remain and transfer to Fannin County.
- Discussion regarding MOU to transfer existing bridge to ownership of Fannin County.
 - o It was made clear that GDOT will not provide inspections or any further service related to existing bridge once MOU is executed.
 - It was also discussed that Fannin County may incur additional costs to maintain the
 existing bridge and if the bridge needs to be removed in the future it will be removed at
 Fannin County's expense.
- Fannin County may contact Bartow County to discuss the similar Hardin Bridge Road project, which had a historic bridge on it that Bartow County wished to keep.
- Carol Kalafut, with GDOT, investigated during the CTM whether Fannin County can request GDOT inspections on the bridge after bridge responsibility is handed over to Fannin County. She found that Fannin County will need to hire a private inspector to do required inspections and may not utilize GDOT resources.
- Due to the high level of activity in the summer, Seasonal limitations should be considered for the construction phase of project.
- GDOT noted that a field office will be required for this project, and should be added to the CES estimate.
- The location maps should be revised the show the location of the proposed offset bridge.
- Revise the preferred alternative and alternative 2 descriptions to state the existing bridge will remain in place.
- Jeff Henry with GDOT comment: A TMP may be required although the project will be classified as non-significant. As a non-significant project, only a TTC would be required. Please verify and include TTC if required.
- Shallowford Bridge Road west of the existing bridge is private. Fannin County may be able to adopt a segment of this private road as needed for the project. This needs to be vetted and coordinated with GDOT ROW, the designer, and the surveyor.
- Need to coordinate construction footprint, crane location and construction time period with local businesses to mitigate impact to seasonal recreational tubing operations.



- Ensure the typical section lane and shoulder widths on the layout match the widths listed in the body of the report.
- The traffic attachment to the final submitted report will only be a one-page memo. Jeff Henry can provide example if needed.

Environmental:

• Mary Best, with Baker, commented that in recent site visit, no findings of protected plant species were noted, however a second site visit will be made as spring growth progresses.

Utilities:

- GDOT noted that utility coordination should be revised in report to be GDOT (page 7).
- TDS has a cable crossing approximately 4' north of the existing bridge.
- Blue Ridge Mountain EMC met on-site with property owner concerning existing power pole in potential conflict with construction. A relocation plan was agreed upon.
- TDS and Blue Ridge Mountain EMC agreed to coordinate relocation of their respective utilities prior to construction.
- The reimbursable utilities item will be updated with the provided utility cost information.
- There is a communication line on the north side of the existing bridge.
- There is a BRMEMC pole conflict at the east side of the proposed bridge. Chris Busbee (BRMEMC) has met with Shawn Sims and local residents and thinks they have established an easement within which to relocate the power line. Robert Tanner (TDS) wants to coordinate with BRMEMC regarding co-location of the communication line.

Bridge:

- Lisa with GDOT commented that if the existing bridge is to remain in place, it's scour impacts will have to be considered in the hydraulic model.
- David Acree, with GDOT, commented that consideration should be given to making the proposed sidewalk on the bridge wider than the 5.5' currently shown.
- Long Engineering will confirm lane widths, sidewalk width, and configurations.
- The existing bridge is part of the Benton MacKaye Hiking Trail, which combined with high pedestrian traffic due to tubing, would warrant the need for a sidewalk on the new bridge. Need to investigate sidewalk width to be used on bridge and get GDOT buy-in prior to concept report submittal. The Benton MacKaye Trail is a Hiking trail.
- Use \$45/SF unit cost for demo of existing bridge.

Right-Of-Way

- The preferred alternate shown ties to a privately held section of Shallowford Bridge Road.
- Stan Helton, Board of Commissioner, Charmin, Fannin County, indicated that they could adopt the required portion of Shallowford Bridge Road currently held as private, thus making it a county road with prescriptive right-of-way.

Please find attached the emailed responses from those who were unable to attend the Concept Team Meeting.

Action Items

-Revise and resubmit Concept Report by May 7, 2018

Concept Team Meetin	g
4/19/2018 PI#001416	7

4/19/2018 PI#001416/									
NAME	TITLE	COUNTY	EMAIL						
Deff Honry	GOOT PM		henry plates gg. gov						
Zack RateIIFF	Fannin Public works	Fannin	Zrateliff @ Fannin County ga. org						
Stan Hollon	Chairman Formen P.	Firm's	Shellong found Courtage in						
LILIN BIRTHSAMMER	GOOT UTILITIES		ibivatarmena dot. ga. gov						
ROBERTTURNER	TECH. ASSIST.INC	705	TECHASSTO WINDSTREAM, NET						
Lisa Wesley VANNY ROBETSON	GIDOT CONST		lwesley @ dot. 9a. 90v						
VANNY KOBERSON	GDOT TRAFF OPS		TChampion & dotiga gar DMONTEITH DDOT. GA. GOV						
KIPP Champion DANIEL MONTEITH	GDOT UTILITIES		rchampion @ dotigo gar						
DANIEL MONTEITH	A IL	=	DMONTEITH & DOT. GA. GOV						
JOSEPH CIAVARRO	GDOT DG PLANNING	- Melkeli	UCIAVARAD @ DOT. GA. GOV						
Dovi D Acree	GOOT DG-Preconstruction	Λ	dacree @ dot. ga. ga.						
Jardan Allen	GODT OF S-NEPA		Joff Marcodit sa sav						
ROBBIE FRIZZEUL	LONG ENG		RFRIZZELLE LONGENG.COM						
Chres maloney	Long Eng LONG ENG		A KAMBURIS & LONGERG. COM						
ANTHONY KAMPURIS			A KAMBURIS @ LONGENG. COM						
MARC Monpron	LONG ENG		M+ hompson@ longeng.com						
Chris Busher (Phone)	BRMEMC		7 7						
Carol Kalafut (phone)	GDOT Bridge Office								
Brandon Clayton (phone)	GDOT District 6		111-1112-11-11						
Mary Best (phone)	Michael Baker								
Linkerly Glayson (phone)									
U /									
		file	et.						

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:4/6/2017

105 Federal Lands Highway:

217 Benchmark Elevation:

*110 Truck Route:

* Location ID No:

0. Not applicable

111-00038X-000.01E

Trucks

0000.00

0- The Feature is not part of the National Network for

Parameters: Bridge Serial Number

Parami	eters:	briage	Seriai	Number

•									
Bridge Serial Number: 111-5007-0		County: Fannin		SUFF. RATING: 7.6					
	Location & Geography					218 Datum:	0- Not Applicable	Signs & Attachments	
	Structure ID:	111-5007	-0			*19 Bypass Length:	10	225 Expansion Joint Type:	00- No expansion joint.
	200 Bridge Information:	06				*20 Toll:	3- On a Free Road or Non-Highway	242 Deck Drains:	0- None.
	*6 Feature Intersected:	TOCCOA	RIVER			*21 Maintenance Responsibility:	02-County Highway Agency.	243A Parapet Location:	0- None present.
	*7A Route Number Carried:	CR00038				*22 Owner:	02-County Highway Agency.	243B Parapet Height:	0.00
	*7B Facility Carried:	SHALLO	WFORD B	BR		*31 Design Load:	0- Unknown	243C Parapet Width:	0.00
	9 Location:	6.4 MIS	OF MORG	SANTON		37 Historical Significance:	2- Eligible for the National Register of Historic Places	238A Curb Height:	0.0
	2 GDOT District:	48416000	000 - D6 D	District Six Cartersvill	e	205 Congressional District:	009	238B Curb Material:	0- None.
	*91 Inspection Frequency:	12	Date:	12/13/2016		27 Year Constructed:	1918	239A Handrail Left:	2- Steel.
	92A Fracture Critical Insp. Freq:	24	Date:	12/13/2016		106 Year Reconsttucted:	0	239B Handrail Right:	2- Steel.
	92B Underwater Insp Freq:	0	Date:	02/01/1901		33 Bridge Median:	0-None	*240 Median Barrier Rail:	0- None.
	92C Other Spc. Insp Freq:	0	Date:	02/01/1901		34 Skew:	0	241A Bridge Median Height:	0
	* 4 Place Code:	00000				35 Structure Flared:	No	241B Bridge Median Width:	0
	*5A Inventory Route(O/U):	1				38 Navigation Control:	0- Navigation is not controlled by an Agency	*230A Guardrail Location Direction Rear:	0- None.
	5B Route Type:	4 - Count	у			213 Special Steel Design:	9- Truss	*230B Guardrail Location Direction Fwrd:	0- None.
	5C Service Designation:	1- Mainlin	ie			267A Type Paint Super Structure:	1- Lead Chromate Oil Alkyd System. Year: 1960	*230C Guardrail Location Opposing Rear:	0- None.
	5D Route Number:	00038				267B Type Paint Sub Structure:	0- Not Applicable Year : 0000	*230D Guardrail Location Opposing Fwrd:	0- None.
	5E Directional Suffix:	0. Not app	plicable			*42A Type of Service On:	1-Highway	244 Approach Slab:	0- None.
	*16 Latitude:	34 - 47.04	430			*42B Type of Service Under:	5-Waterway	224 Retaining Wall:	1- Cast-in-Place Concrete.
	*17 Longtitude:	84 - 15.56	370			214A Movable Bridge:	0	233 Posted Speed Limit:	25
	98A Border Bridge:	0		98B: GA%	00	214B Operator on Duty:	0	236 Warning Sign:	Yes
	99 ID Number:	00000000	0000000			203 Type Bridge:	A- Spread footing. O. Concrete M. Steel I. Timber	234 Delineator:	Yes
	*100 STRAHNET:	0- The Fe	ature is n	ot a STRAHNET rou	te.	259 Pile Encasement:	3	235 Hazard Boards:	No
	12 Base Highway Network:	Yes				*43A Structure Type Main material:	3-Steel	237A Gas:	00- Not Applicable
	13A LRS Inventory Route:	11120038	300			*43B Structure Type Main Type:	10-Truss - Thru	237B Water:	00- Not Applicable
	13B Sub Inventory Route:	0				45 Number of Main Spans:	1	237C Electric:	00- Not Applicable
	101 Parallel Structure:	N. No par	allel struc	ture exists		44 Structure Type Approach:	A:3- Steel B: 2- Stringer/Multi-Beam or Girder	237D Telephone:	00- Not Applicable
	*102 Direction of Traffic:	3- Alterna	iting One	Way		46 Number of Approach Spans:	2	237E Sewer:	00- Not Applicable
	*264 Road Inventory Mile Post:	0.01				226 Bridge Curve:	A: Vertical: NoB: Horizontal: No	247A Lighting: Street:	No
	*208 Inspection Area:	Area 06				111 Pier Protection:	N - Navigation Control item coded 0, or Feature not a waterway	247B Navigation:	No
	*104 Highway System:	0- Invento	ory Route	is not on the NHS		107 Deck Structure Type:	8 - Timber	247C Aerial:	No
	*26 Functional Classification:	8- Rural -	Minor Co	llector		108A Wearing Surface Type:	7. Timber	*248 County Continuity No.:	00
	*204A Federal Route Type:	0 - Not loo	cated on a	a Federal Aid Route		108B Membrane Type:	0. None	36A Bridge Railings:	 Inspected feature exists but does not meet current or construction date standards.
	*204B Federal Route Number:	00000				108C Deck Protection:	0. None	36B Transition:	0- Does not meet standards

0

265 Underwater Inspection Area:

0- Does not meet standards

0- Does not meet standards

36C Approach Guardrail:

36D Approach Guardrail Ends:

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:4/6/2017

Bridge Serial Number: 111-5007-0		County: Fannin		SUFF. RATING: 7.6	
Programming Data		Measurements:		Ratings and Posting	
201 Project Number:	COUNTY DESIGN	*29 AADT:	490	65 Inventory Rating Method:	2-Allowable Stress (AS)
202 Plans Available:	0- No Plans Available.	*30 AADT Year:	2012	63 Operating Rating Method:	2-Allowable Stress (AS)
249 Proposed Project Number:	000000000000000000000000000000000000000	109 % Truck Traffic:	1	66A Inventory Type:	2 - HS loading.
250A Reconstruction Approval Status:	No	* 28A Lanes On:	1	66B Inventory Rating:	10
250B Route Approval Status:	No	*28B Lanes Under:	0	64A Operating Type:	2 - HS loading.
250C Approval Status Definition:	0	210A Tracks On:	00	64B Operating Rating:	15
250D Approval Status Federal:	0	210B Tracks Under:	0	231Calculated Loads	Posting Required
251Project Identification Number:	0014167	* 48 Maximum Span Length:	135	231A H-Modified:	07 Yes
252 Contract Date:	02/01/1901	* 49 Structure Length:	175	231B Type3/Tandem:	00 No
260 Seismic Number:	00014	51 Bridge Roadway Width:	11.4'	231C Timber:	00 No
75A Type Work Proposed:	31- Replacement due to load capacity or roadway geometry	52 Deck Width:	11.4'	231D HS-Modified:	00 No
75B Work Done by:	1- Work to be done by contract	* 47 Total Horizontal Clearance:	11.4'	231E Type 3S2:	00 No
94 Bridge Improvement Cost:(X\$1,000)	\$497	50A Curb / Sidewalk Width Left:	0.0	231F Piggyback:	00 No
95 Roadway Improvement Cost: (X\$1,000)	\$50	50B Curb / Sidewalk Width Right:	0.0	261 H Inventory Rating:	06
96 Total Improvement Cost: (X\$1,000)	\$746	32 Approach Rdwy. Width:	16.0'	262 H Operating Rating:	08
76 Improvement Length:	1495.0'	*229 Approach Roadway		67 Structural Evaluation:	2
97 Year Improvement Cost Based On:	2013	Rear Shoulder Left: Width: 0	Right Width: 0.0 Type: 7 - None.	58 Deck Condition:	8 - Very Good Condition
114 Future AADT:	735	Fwd Shoulder: Left Width: 0	Right Width:0.0 Type: 7 - None.	59 Superstructure Condition:	3 - Serious Condition
115 Future AADT Year:	2032	Rear Pavement: Width: 16.0	Type:7- None (Dirt).	* 227 Collision Damage:	
		Forward Pavement: Width: 16.0	Type:7- None (Dirt).	60A Substructure Condition:	5 - Fair Condition
		Intersection Rear: 1	Forward:0	60B Scour Condition:	8 - Very Good Condition
Hydraulic Data		53 Minimum Vertical Clearance Over Rd:	10' 5"	60C Underwater Condition:	N - Not Applicable
113 Scour Critical:	U. No Load Rating; no scour critical data	54A Under Reference Feature:	N- Feature not a highway or railroad.	71 Waterway Adequacy:	9-Superior to present desirable criteria.
216A Water Depth:	entered. 03.4	54B Minimum Clearance Under:	0' 0"	61 Channel Protection Cond.:	8-Equal to present desirable criteria.
216B Bridge Height:	16.6	*228 Minimum Vertical Clearance		68 Deck Geometry:	2
222 Slope Protection:	0	228A Actual Odometer Direction:	10'05"	69 UnderClr. Horz/Vert:	N
221A Spur Dike Rear:		228B Actual Opposing Direction:	99'99"	72 Approach Alignment:	4-Between 6 and 3
221B Spur Dike Fwd:		228C Posted Odometer Direction:	09'00"	62 Culvert:	N - Not Applicable
219 Fender System:	0- None.	228D Posted Opposing Direction:	00'00"	70 Bridge Posting Required:	0. > 39.9% below
220 Dolphin:		55A Lateral Underclearance Reference:	N- Feature not a highway or railroad.	41 Struct Open, Posted, CL:	P. Posted for load
223A Culvert Cover:	000	55B Lateral Underclearance on Right:	0.0	* 103 Temporary Structure:	No
223B Culvert Type:	0- Not Applicable	56 Lateral Underclearance on Left:	0.0	232 Posted Loads	
223C Number of Barrels:	0	10A Direction of Travel for Max Min:	3	232A H-Modified:	07
223D Barrel Width:	0.0	10B Max Min Vertical Clearance:	10'5"	232B Type3/Tandem:	00
223E Barrel Height:	0.0	245A Deck Thickness Main:	3.0	232C Timber:	00
223F Culvert Length:	0.0	245B Deck Thickness Approach:	3.0	232D HS-Modified:	00
223G Culvert Apron:	0	246 Overlay Thickness:	0	232E Type 3s2:	00
39 Navigation Vertical Clearance:	0'			232F Piggyback:	00
40 Navigation Horizontal Clearance:	0			253 Notification Date:	02/01/1901
116 Navigation Vertical Clear Closed:	0			258 Federal Notify Date:	02/01/1901